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**From:** Page, Chris [c.page@wsu.edu]  
**Sent:** 2/6/2016 12:57:46 AM  
**To:** ABOR461@ECY.WA.GOV; Whitman, Kara Michelle [kmwhitman@wsu.edu]  
**CC:** Mullin, Michelle [Mullin.Michelle@epa.gov]; Gimlin, Peter [Gimlin.Peter@epa.gov]; Winchester, Erik [Winchester.Erik@epa.gov]  
**Subject:** RE: SRRTTF Workshop\_ final agenda and session documents

EPA folks, see below: apparently the call-in number I provided will not be used for Tuesday's TSCA/PCB conversation.

Stay tuned for a "SPECIAL WEBINAR PHONE NUMBER" on Monday.

Adriane and Kara, can you copy these EPA staff members when you send the email with the webinar number Monday, please?

*-Chris Page, Project & Development Lead*

**William D. Ruckelshaus Center:** [www.ruckelshauscenter.wsu.edu](http://www.ruckelshauscenter.wsu.edu)

901 Fifth Avenue, Suite 2900 / Seattle, WA 98164

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<http://cahnrs.wsu.edu/directory/profile/c-page>

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**From:** Borgias, Adriane P. (ECY) [mailto:ABOR461@ecy.wa.gov]  
**Sent:** Friday, February 05, 2016 3:49 PM  
**To:** Page, Chris <c.page@wsu.edu>; Fikslin, Tom <Thomas.Fikslin@drbc.nj.gov>; 'Lisa Dally Wilson  
Ex. 6 Personal Privacy (PP)'; Cavallo, Greg <Greg.Cavallo@drbc.nj.gov>  
**Cc:** Whitman, Kara Michelle <kmwhitman@wsu.edu>; Lisa Rodenburg (rodenburg@envsci.rutgers.edu)  
<rodenburg@envsci.rutgers.edu>  
**Subject:** RE: SRRTTF Workshop\_ final agenda and session documents

Chris,

Kara and I were going over logistics today and have a few changes due to the venue setup.

**Here is the latest information regarding the webinar.**

- 1) Links to the webinar and webinar instructions will be posted daily on the website. There will be two links each day (morning and afternoon); and you may join in at any time.
- 2) WE WILL BE USING A SPECIAL WEBINAR PHONE NUMBER, NOT THE ONE BELOW. We will provide that to the speakers and experts on Monday.
- 3) Only the speakers and experts will have audio capabilities, which we will manage through the webinar console. (Chris, if there is anyone else who needs to be connected via audio, let Kara know).
- 4) All other online attendees will be able to comment via the "raise hand" and "chat" functions on the webinar. We will have someone monitoring the chat box. The webinar monitor may interrupt to ask questions from the attendees, if needed.
- 5) **Greg**, if you want to be "live" when you give your presentation, you will need to have a webcam on your computer. If you don't want to be "live" you can provide a photo, which we will project while you are speaking. You can join the webinar via computer microphone or telephone, just let us know what you prefer. Perhaps we should do a dry run on Monday, just to make sure it works at your end?

I am in the office Monday if anyone has any specific questions.

Also copying Lisa Rodenburg on this email so she is in the loop (Lisa, the same applies to you as Greg if you want to be live, you will need to have a webcam attached to your computer. You can use a microphone or call in, your choice).

Adriane Borgias

Spokane River Water Quality Lead  
Washington State Department of Ecology  
Water Quality Program - Eastern Regional Office  
4601 North Monroe Street  
Spokane, WA 99205-1295  
(509) 329-3515

*This communication is public record and may be subject to disclosure as per the Washington State Public Records Act, RCW 42.56.*

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**From:** Page, Chris [mailto:[c.page@wsu.edu](mailto:c.page@wsu.edu)]  
**Sent:** Friday, February 05, 2016 3:14 PM  
**To:** Fikslin, Tom <[Thomas.Fikslin@drbc.nj.gov](mailto:Thomas.Fikslin@drbc.nj.gov)>; 'Lisa Dally Wilson' [Ex. 6 Personal Privacy (PP)]  
[Ex. 6 Personal Privacy (PP)]; Cavallo, Greg <[Greg.Cavallo@drbc.nj.gov](mailto:Greg.Cavallo@drbc.nj.gov)>  
**Cc:** Whitman, Kara Michelle <[kmwhitman@wsu.edu](mailto:kmwhitman@wsu.edu)>; Borgias, Adriane P. (ECY) <[ABOR461@ECY.WA.GOV](mailto:ABOR461@ECY.WA.GOV)>  
**Subject:** RE: SRRTTF Workshop\_ final agenda and session documents

Tom and Greg, to join by phone,

Conference call-in number is [Ex. 6 Personal Privacy (PP)] Participant Code is [Ex. 6 Personal Privacy (PP)]

Adriane Borgias or Kara Whitman will send out webinar url.

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**From:** Fikslin, Tom [mailto:[Thomas.Fikslin@drbc.nj.gov](mailto:Thomas.Fikslin@drbc.nj.gov)]  
**Sent:** Friday, February 05, 2016 1:16 PM  
**To:** Page, Chris <[c.page@wsu.edu](mailto:c.page@wsu.edu)>; 'Lisa Dally Wilson' [Ex. 6 Personal Privacy (PP)]  
Cavallo, Greg <[Greg.Cavallo@drbc.nj.gov](mailto:Greg.Cavallo@drbc.nj.gov)>  
**Cc:** Whitman, Kara Michelle <[kmwhitman@wsu.edu](mailto:kmwhitman@wsu.edu)>; Borgias, Adriane P. (ECY) ([ABOR461@ecy.wa.gov](mailto:ABOR461@ecy.wa.gov))  
<[ABOR461@ecy.wa.gov](mailto:ABOR461@ecy.wa.gov)>  
**Subject:** RE: SRRTTF Workshop\_ final agenda and session documents

Chris and Lisa,

I will be listening in on both session 1 and 2, and both Greg and I would like to attend by webinar. For Session 1, we will both be attending from our offices. I will be attending from home for Session 2 (Greg may attend from our offices or from home). I cannot attend any sessions on Wednesday since I will be in a public hearing for a Commission action on Wednesday and I teach a college class in the evening. Greg will inform you of his intentions for Wednesday sessions.

Can you provide information on how to join the webinar and provide available lines for both Greg and I?

Regards,  
Tom

Thomas J. Fikslin, Ph.D., Manager

Modeling, Monitoring & Assessment Branch  
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P.O. Box 7360  
West Trenton, NJ 08628

Phone: (609) 477-7253

Email: [thomas.fikslin@drbc.nj.gov](mailto:thomas.fikslin@drbc.nj.gov) (new)



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**From:** Page, Chris [<mailto:c.page@wsu.edu>]

**Sent:** Friday, February 05, 2016 1:30 PM

**To:** Cavallo, Greg <[Greg.Cavallo@drbc.nj.gov](mailto:Greg.Cavallo@drbc.nj.gov)>; Fikslin, Tom <[Thomas.Fikslin@drbc.nj.gov](mailto:Thomas.Fikslin@drbc.nj.gov)>

**Cc:** Whitman, Kara Michelle <[kmwhitman@wsu.edu](mailto:kmwhitman@wsu.edu)>; Borgias, Adriane P. (ECY) (ABOR461@ecy.wa.gov) <[ABOR461@ecy.wa.gov](mailto:ABOR461@ecy.wa.gov)>; 'Lisa Dally Wilson' (Ex. 6 Personal Privacy (PP)) <(Ex. 6 Personal Privacy (PP))>

**Subject:** SRRTTF Workshop\_ final agenda and session documents

Hi Greg and Tom,

I facilitate meetings of the Spokane River Regional Toxics Task Force and recall that Greg kindly joined the Task Force at their past technical workshops, and shared with them knowledge and judgment gained from your years of work on PCB cleanup with the DRBC. As we move into the final planning stages for the Task Force's workshop next week, I write to request you let us know what sessions of this year's workshop you are able to join by phone/webinar, if any.

I have attached the latest agenda and informational docs, and for more info on specific topics/questions please see my colleague Lisa Dally Wilson's email below.

The Task Force has truly benefited from DRBC participation in the past, and would appreciate any and all time you can spend with them (again) this year as they wrestle with the complex and unique Spokane River system and the PCBs therein.

Thanks,

*-Chris Page, Project & Development Lead*

William D. Ruckelshaus Center: [www.ruckelshauscenter.wsu.edu](http://www.ruckelshauscenter.wsu.edu)

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<http://cahnrs.wsu.edu/directory/profile/c-page>

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**From:** Lisa Dally Wilson <(Ex. 6 Personal Privacy (PP))>

**Date:** Monday, February 1, 2016 at 3:58 PM

**To:** "Cavallo, Greg" <[Greg.Cavallo@drbc.nj.gov](mailto:Greg.Cavallo@drbc.nj.gov)>, "Fikslin, Tom" <[Thomas.Fikslin@drbc.nj.gov](mailto:Thomas.Fikslin@drbc.nj.gov)>, Lisa Rodenburg <[rodenburg@envsci.rutgers.edu](mailto:rodenburg@envsci.rutgers.edu)>

**Cc:** Kara Whitman <[kmwhitman@wsu.edu](mailto:kmwhitman@wsu.edu)>

**Subject:** SRRTTF Workshop\_ final agenda and session documents

Greetings Greg, Tom and Lisa!

I trust you've all safely dug out from last week's snowstorm!

I'm emailing to check in with the three of you regarding the SRRTTF PCB Workshop next week. Attached is the final draft agenda and Session documents for Sessions 2 and 5). I'm ccing Kara Whitman who will be sending out all of the webinar instructions. You can always contact her if you run into any difficulty communicating with us at the workshop! She and a

couple of her students will be online and running the webinar during the workshop. All workshop materials and speaker presentations will be posted at: [http://srттf.org/?page\\_id=5589](http://srттf.org/?page_id=5589). Please note that Session 5 is where the majority of our questions are posed to invited experts.

Greg, I know you've been coordinating with Adriane regarding the Database Management Session on the 11th.

**In addition to that session, I wanted to coordinate with all three of you regarding your participation during the first two days (February 9 and 10), and provide some leading questions that might help in focusing your comments and advice to the Task Force. As I have mentioned to each of you previously, some of the important sessions will be running in the afternoon Pacific Standard Time, which is your dinner hour. My apologies. If you cannot call in, let me know and perhaps we can get some written comments from you in advance, to present at the end of the day on the 10th (during Session 5).**

Session 1: 9:00 - 12:15 PST, Feb 9 - Background on our sampling efforts and analysis –

This would be helpful for you to get background information, although not mandatory. Note that we have analyzed water column samples from dry weather sampling of the Spokane River and NPDES discharges using Method 1668C and have the congener data, BUT TO DATE ALL THE ANALYSES HAVE BEEN CONDUCTED ON TOTAL PCBs and not individual congener, homolog or aroclors.

Session 2: 1:30 – 5:00 pm PST, Feb 9 – Fish

This will be a lively session. Much of the first half will describe the policy here in Washington which has enabled a 303(d) listing of the Spokane River based on concentrations of total PCBs in fish tissue, while our water column concentrations are in the parts per quadrillion and, at times, not easily differentiated from concentrations measured in lab blanks. We have little sediment in the system, and where it does exist, the PCB concentrations in sediment have not been well quantified.

I've attached the Session document for this Session (Session 2) and am hopeful there will be significant time left for discussion. If so, here's where we could use your input:

- Can the congener distribution in the water column and the congener distribution in fish tissue from the Spokane River be used to make any inferences about exposure pathways (and hence, relevant BMPs)?
- We know that there is a time lag in how fish respond to decreased loadings of contaminants in a waterbody. What can we reasonably expect for the Spokane River?

Please note that if you cannot attend during the fish discussion, these questions will be asked again in Session 5.

Session 3: 8:30 – 10:30 am PST, Feb 10 – Comprehensive Plan (presented by Dave Dilks, LimnoTech)

Again, this session will be helpful background, but not mandatory.

Session 4: 10:45-12:15 am PST, Feb 10 – BMP presentation

Session 4: 1:15 – 2:30 pm PST, Feb 10 – BMP breakout groups, brainstorm session

The morning session could be of interest, not mandatory.

Session 5: 2:30 – 5:00 pm PST, Feb 10 – Where to go from here, Next Steps for SRRTTF

This is where we are hoping to glean from our invited experts and their experience in other watersheds/states. I've attached the Session document for this Session, and as you can see, there are a number of questions we were hoping our experts would weigh in on:

- Do you think it would be beneficial to look at individual congener data or homologs from water column data to identify potential sources?
- Do you think it would be beneficial to compare congeners in fish with those in the water column and how is that best performed?
- If the water column PCB levels don't explain measured fish levels, is there a way to back into the missing inputs from a congener/homolog perspective?
- Are there other data analysis methods such as Positive Matrix Factorization (PMF) that would help with source identification?
- Do we need to explore sediment as a source of PCBs to fish and the water column, and if so, how?
- Do we need further quantification of stormwater loadings, and if so, how should it be done?
- Are there other parallel activities (data generation or analysis) that should be undertaken?

- Overlay locations where PCB congener level data for the water column, fish, sediment or other data exist on the river to determine where detailed analyses of fish/water/sediment could be performed or should be performed?
  - Data mining for specific information such as regional groundwater data?
- Is there value at this point to see if fish tissue data (2005 / 2012) align with the riverine PCB concentrations measured in the 2014 and 2015 water column or align with recent sediment PCB data (eg., is there value to conducting a more rigorous food web model)?

? What are your suggested priorities for the SRRTTF in their upcoming year scope of work?

Thanks to all three of you. My apologies for the long email. Feel free to call me on my cell (below) if you have any questions.

Best,  
~lisa

lisa dally wilson, pe | daily environmental | (206) 915-9551